



High-Tech Opportunities To Rural Georgians

Camden County and Space High-Tech History

In 1965 – The Thiokol Corporation tested the world's most powerful rocket engine in preparation for flights to the moon. The test was done in Camden County on the site of the proposed spaceport.

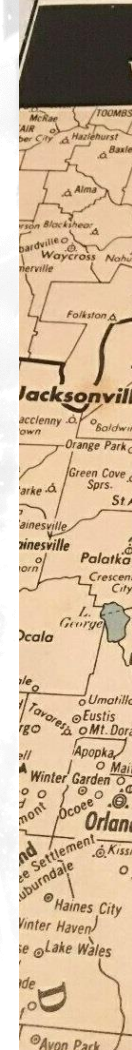
**Camden County
was a contender as a
launch site for the
Apollo Missions.**



Why Camden is Important?

- Thiokol Space Booster Division
- and barge Kennedy
- engineers were for state tech
- Geo of th
- Enhanc military
- Offers h

Thiokol
Space Booster Division
Camden County, Georgia
Dedicated May, 1964



Prior to formation of the Space Booster Division, Thiokol teams had searched the Atlantic and Gulf coastal areas for a site on which to develop the very large rocket motors. This site in Camden County, Georgia was selected in 1961. It was chosen because of its proximity to the Atlantic Missile Range, its abutment to the intracoastal waterway, its immediate access to deep water, and the availability of rail and highway transportation. In contrast to the many other sites surveyed, the Camden County location also had a fifty year record of practically no hurricane damage.



What this means for jobs and economic activity

- The global space economy is currently valued at around \$350 billion
Source – Commercial Spaceflight Federation
- Industry analyses by Goldman Sachs, Morgan Stanley and Bank of America indicate it could grow to \$1 trillion or more by the 2040's
Source – US Chamber of Commerce
- Current opportunities include telecommunications and broadband, Earth systems and weather forecasting, GIS and GPS, agricultural geo-monitoring & more
- Future opportunities will include space situational awareness, space-based solar power, orbital debris remediation, hypersonic point-to-point transportation, commercial human spaceflight, the commercial recovery of space resources, and providing broadband coverage for the *Internet of Things*



Coca-Cola Space Science Center



COLUMBUS STATE
UNIVERSITY

What this means for teachers and students

- More opportunities for experiential learning in STEM subjects
- Areas like 3D design and manufacturing, electronics, programming and AI, machining and trades, and more
- More opportunities for research access to space
- More opportunities to inspire students to get involved

Licensing and Permitting Process



Licensing & Permitting Process

- The Camden County Board of Commissioners is the applicant and must apply to the Federal Aviation Administration (FAA) for a Launch Site Operators License.
- Entire process is led by the FAA and its Office of Commercial Space Transportation.
- Diligent Safety Review – In over 300 licensed launches, **the FAA never had a casualty of the uninvolved public.**



Next Step in the Environmental Impact Statement (EIS) Process

FAA Issues the Record of Decision (ROD)

11

Publish Final EIS

10

Publish Draft EIS



9

Public Review Period



8

Public Draft EIS

7

Identify Mitigation

6

Analyze Environment Impact

5

Study Affected Environment

4

Develop Alternatives

3

Identify Purpose & Need

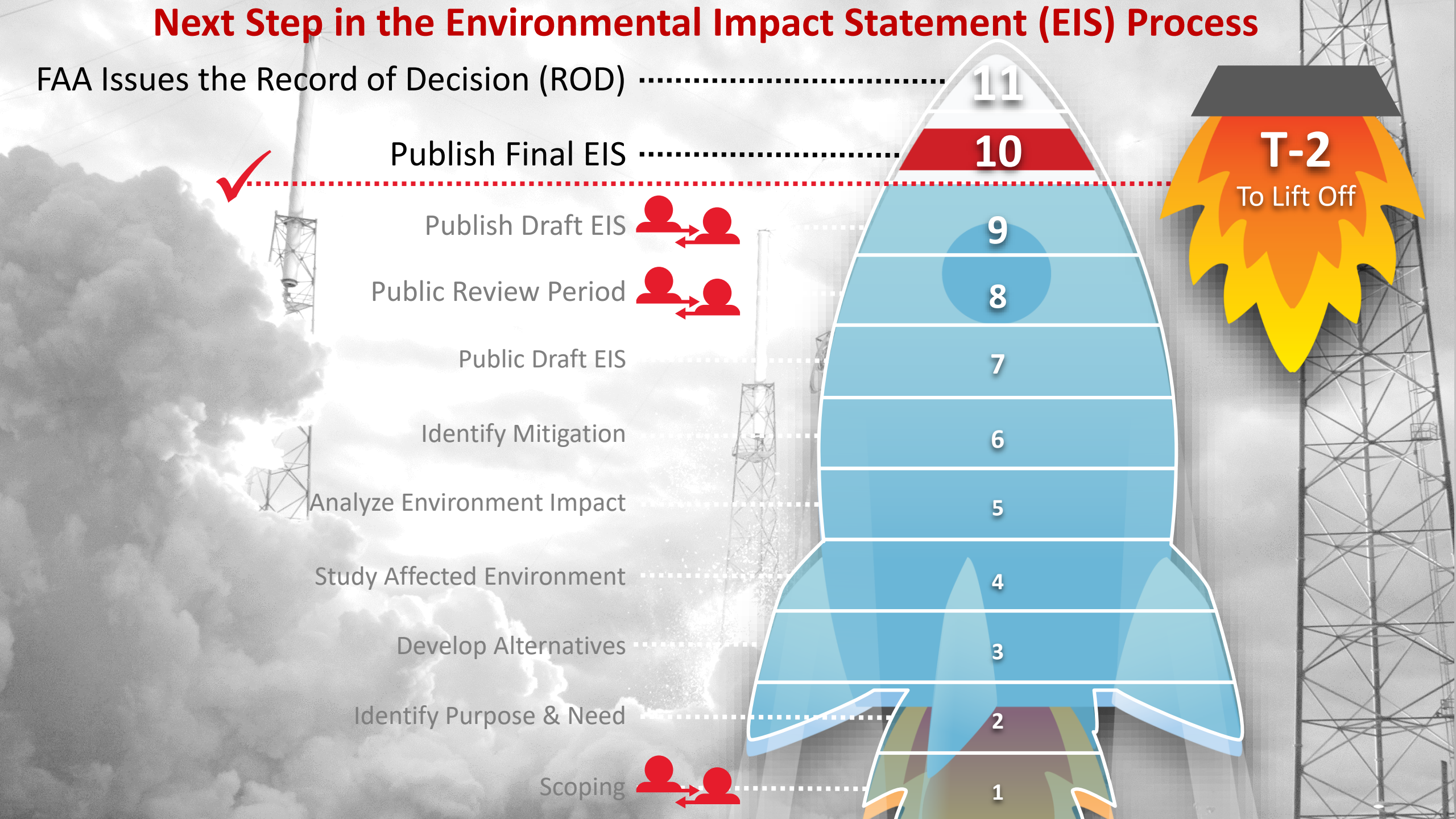
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Scoping



1

T-2
To Lift Off



What is Analyzed in an Environmental Impact Statement (EIS)?

- Air quality
- Biological resources (including fish, wildlife, and plants)
- Climate
- Coastal resources
- Department of Transportation Act, Section 4(f)
- Farmlands
- Hazardous materials, solid waste, and pollution prevention
- Historical, architectural, archeological, and cultural resources
- Land use
- Natural resources and energy supply
- Noise and compatible land use
- Socioeconomics, environmental justice, and children's environmental health and safety risks
- Visual effects (including light emissions)
- Water resources (including wetlands, floodplains, surface waters, groundwater, and wild and scenic rivers)

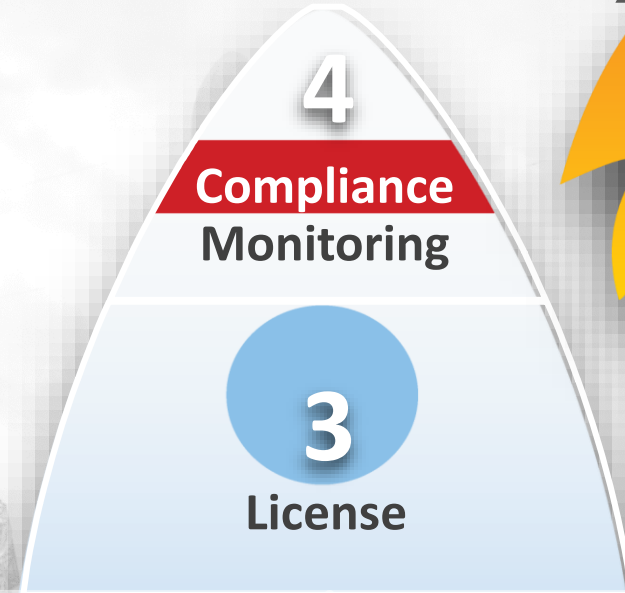
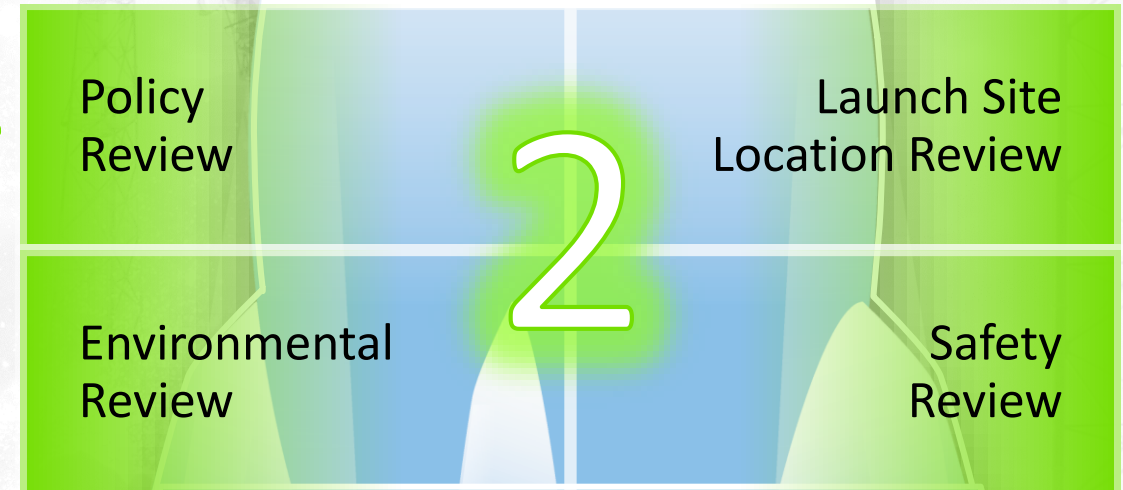
Next Step in the Licensing and Permitting Process

- ✓ Launch Site Operator's License Application Submitted
- ✓ Upon Acceptance of Application, 180-day Review Period Begins

Next Step - Licensing Decision



180 days



1
License
Application

Kennedy Space Center

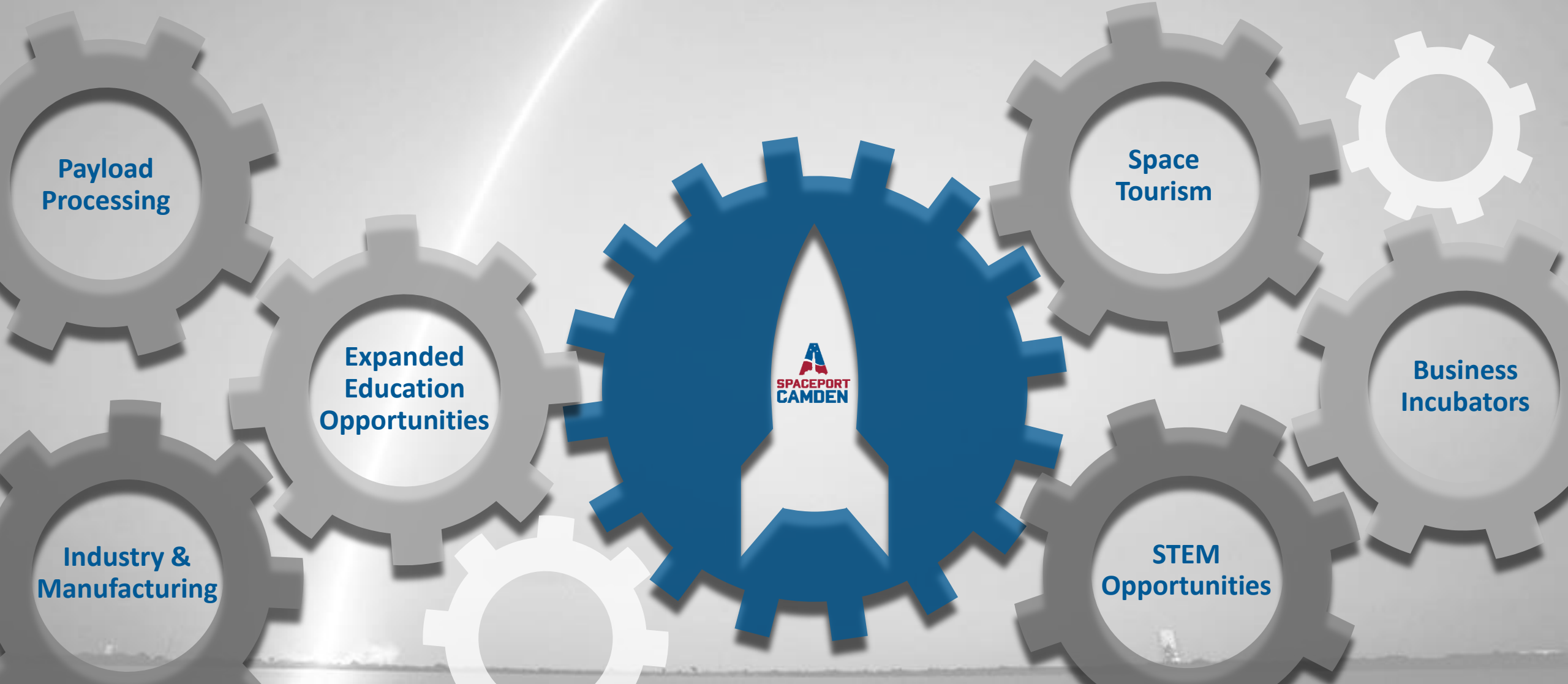
“The unique relationship the refuge shares with NASA is testimony that nature and technology can coexist and thrive.”

U.S. Fish & Wildlife Service Merritt Island Brochure



Spaceport Camden—A Catalyst for Economic Development

Serving as a Community Focal Point for Aerospace Workforce Development and Training



A background image showing a rocket launch. A bright, white plume of fire and smoke rises from the bottom left, curving upwards and to the right. The sky is a pale, overcast grey. In the distance, a small, dark silhouette of a structure, possibly a launch pad or another rocket, is visible on the horizon.

**“Never be limited by other
people’s imaginations.”**

**— Mae Jemison,
Engineer, physician, NASA astronaut,
and first black woman to travel into space**